

RABIN & BERDO, P.C.*Specializing in Patent, Trademark
And Copyright Law*

Steven M. Rabin
Robert H. Berdo, Jr.
Phillip G. Avruch
Allen Wood
Nicholas S. Bromer
Qixia Zhang, Pat. Agent (China)

Suite 500, 1101 14th Street, N.W.
Washington, D.C. 20005
Tel.: (202) 371-8976
Fax: (202) 408-0924 and (202) 408-5297
E-Mail: firm@rabinchamp.com

In Affiliation with
Weiss, Moy & Harris, PC
having offices in Arizona and Nevada,
and in Washington, DC with
Rabin & Berdo, PC

May 27, 2005

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| FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTORNEY'S DOCKET NUMBER |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | JUN 112NP |
| | | U.S. APPLICATION NO. 10/536755 To Be Assigned |
| INTERNATIONAL APPLICATION NO. PCT/KR03/001246 | INTERNATIONAL FILING DATE 25 June 2003 (25.06.03) | PRIORITY DATE CLAIMED 23 June 2003 (23.06.03) |
| TITLE OF INVENTION A MODULATION METHOD USING HARD DECISION FOR QUADRATURE AMPLITUDE MODUALTION AND AN APPARATUS THEREOF | | |
| APPLICANT(S) FOR DO/EO/US SEO Hong-Seok, and KIM Tae-Hoon | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <ol style="list-style-type: none"> <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). <input checked="" type="checkbox"/> has been transmitted by the International Bureau. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)) [pages]. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)). <ol style="list-style-type: none"> <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). <input type="checkbox"/> have been transmitted by the International Bureau. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. <input checked="" type="checkbox"/> have not been made and will not be made. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). | | |
| Items 11. To 16. below concern document(s) or information included: | | |
| <ol style="list-style-type: none"> <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. <input type="checkbox"/> A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment. <input type="checkbox"/> A substitute specification. <input type="checkbox"/> A change of power of attorney and/or address letter. <input checked="" type="checkbox"/> Other items or information: -International Search Report | | |

FEE ENCLOSED: \$ 500
Please charge any further
fee to our Deposit Account
No. 18-0002

JC06 Rec'd PCT/PTO 27 MAY 2005

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|---|---------------|--|------------|---------------------------------------|-----------|
| U.S. APPLICATION NO. To be assigned 10/536755 | | INTERNATIONAL APPLICATION NO. PCT/KR03/001246 | | ATTORNEY'S DOCKET NUMBER JUN 112NP | |
| 17. The following fees are submitted: | | | | CALCULATIONS PTO USE ONLY | |
| <input checked="" type="checkbox"/> Basic National Stage Fee | | \$ 300.00 | | | |
| <input checked="" type="checkbox"/> National Stage Search Fee | | \$ 500.00 | | | |
| <input checked="" type="checkbox"/> National Stage Examination Fee | | \$ 200.00 | | | |
| ENTER APPROPRIATE BASIC FEE AMOUNT = | | | | \$ 1000.00 | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)) | | | | \$ 0.00 | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
| Total claims | 12- 20 = | 0 | x \$50.00 | \$ 0.00 | |
| Independent claims | 2- 3 = | 0 | x \$200.00 | \$ 0.00 | |
| Total sheets of specification and drawings (more than 100) | (- 100)/50 = | 0 | x \$250.00 | \$ 0.00 | |
| MULTIPLE DEPENDENT CLAIM(S) (IF APPLICABLE) | | | + \$360.00 | \$ 000.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 1,000.00 | |
| Reduction of 1/2 for filing by small entity, if applicable. Small Entity status is asserted. | | | | \$ 500.00 | |
| SUBTOTAL = | | | | \$ 500.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)) | | | | + | \$ 000.00 |
| TOTAL NATIONAL FEE = | | | | \$ 500.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | + | \$ 0.00 |
| TOTAL FEES ENCLOSED = | | | | \$ 500.00 | |
| | | | | Amount to be Refunded: | \$ |
| | | | | Charged: | |

A Form PTO-2038 in the amount of \$ 500.00 to cover the above fee is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-0002. A duplicate copy of this sheet is enclosed.

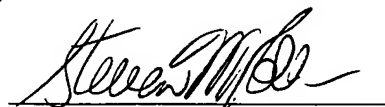
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

RABIN & BERDO, P.C.
CUSTOMER NO. 23995

Telephone - (202) 371-8976

Facsimile - (202) 408-0924



SIGNATURE

NAME:

Steven M. Rabin. (Reg. No. 29.102)

Date: May 27, 2005